Title (en)

IMAGE PROCESSING DEVICE AND PROGRAM

Title (de)

VORRICHTUNG UND PROGRAMM ZUR BILDVERARBEITUNG

Title (fr)

DISPOSITIF DE TRAITEMENT D'IMAGE ET PROGRAMME

Publication

EP 2202684 A1 20100630 (EN)

Application

EP 08836718 A 20081001

Priority

• JP 2008067792 W 20081001
• JP 2007261788 A 20071005

Abstract (en)

An object is to provide an image processor for improving the preservability in an edge portion while effectively removing isolated points. Included are an edge judgment section that judges whether an edge exists in a predetermined region specified by a pixel of interest and surrounding pixels of the pixel of interest; a difference calculation section that calculates differences in pixel value between the pixel of interest and the surrounding pixels in the predetermined region; a weight coefficient calculation section that calculates weight coefficients for the respective surrounding pixels from the differences calculated by the difference calculation section, according to a judgment result of the edge judgment section; a weighted averaging section that calculates a weighted average value of the surrounding pixels by using the weight coefficients calculated by the weight coefficient calculation section; and a correction section that corrects the pixel value of the pixel of interest at least one time based on the weighted average value of the surrounding pixels calculated by the weighted averaging section, the pixel value of the pixel of interest, and the judgment result of the edge judgment section.

IPC 8 full level

G06T 5/00 (2006.01); **G06T 5/20** (2006.01); **H04N 1/409** (2006.01); **H04N 1/46** (2006.01); **H04N 1/60** (2006.01); **H04N 5/232** (2006.01)

CPC (source: EP US)

G06T 5/70 (2024.01 - EP US); **H04N 1/409** (2013.01 - EP US); **H04N 1/4092** (2013.01 - EP US); **H04N 25/68** (2023.01 - EP US); G06T 2207/20192 (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

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DOCDB simple family (application)

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